Corporate Summarized Data using Android Application

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Abstract:
In the today’s corporate world, due to the large database data the manager are faced with lots of difficulties at their various offices to take the decisions. The decisions making process at every corporate world are the very vital as decisions taken by management because those decisions make a company either overtake or stay within reach of its competitors. Our application present the design and development of android application that will retrieve the summarized data from the stored central database and display that summarized information by using the graphical representation on an android device to aim the managers in their decision making process. The android application is developed using android studio with the android SDK tool. This android application will retrieve data from database and display that information in the graphical format on the android application on the basis of the summarized data. The user or manager of the company would be able to analyse the data on the basis of the generated summarized report and hence make the quick decisions as they would not be drowned in a flood of entire detailed information.

Keywords: Android Studio, Android Application, Data Processing, Decision Making, SDK tool.

I. INTRODUCTION

Android is the operating system that operates the smart phones. Just like Windows operating system are used in laptop and desktop computers, or Apple’s iPods such as powers phones and ipads, Android is the open source. As the smart phones are use by each and every individual for their professional and personal uses the smart phones are the best option to go with. Android have many versions which are different versions are supported by the different smart phones. In addition to being free to commercial world android is the best option and modern companies are working behind it. Our project aims to take advantage of the fast growing corporate area of Android devices by developing an Android application that would help to retrieve and display summarized data on Android devices, thus enabling users or manager to get up-to-date information anywhere. By using this application they have the application installed on their Android device as well as an active internet connection. The scope of this project is the use of Android applications within corporate organizations in the decision-making process. In large corporate organization where managers have to make quick decisions to enable their organization remain in the competition and be profitable decision-making is very key in such organizations, since any “wrong” decision made could have losses on the organization. Top-level managers make such decisions within these corporate organizations and before making any decision, they go through company records; decisions made are based on information gather. Decision-making is a very important process in the business world which can be more or less rational or irrational and can be based on explicit or tacit knowledge. In the companies today, several decisions are made every day which can be either beneficial or may generate problems for the company. Some decisions should be made quickly. Unfortunately, those are the ones that some business owners may agonize over for days or weeks. This is because of the tons of data that is generated from branches located at different places which cannot be communicated efficiently due to many reasons including the different forms of representing the company’s information. In order to overcome this situation, we can enable the managers to use an Android application enabling them to take instant decisions. The objective of this paper is to make use of popular Android devices and to propose a system which consists of retrieval of summarized data from a central database followed by processing and displaying the information on an android device which can be beneficial for the managers in their decision-making. In the corporate world today where huge amounts of information is generated in a fraction of time, summarizing the data is the most difficult task as going through this huge amount of data and extracting the important and useful information involves data mining and hence is very time consuming task. Useful information can be extracted using different methods of data mining. In order to speed up the decision-making process the summarized information must be displayed in pictorial form which can be achieved by using dashboard technology.

II. REVIEW OF LITERATURE

Consider a global company that has its offices located in major cities all over the world with the company’s headquarters situated in one of the cities. Senior management of the company receives the reports from all their offices in order to make important managerial decisions specific to each of their offices. But at times the information they get can be so voluminous that plotting strategies and analysing the trends from the received data becomes very tedious and decision-making which should have been prompt for such corporate entities ends up taking a lot of time thus affecting the performance of some of their branches. The important part in the project is displaying the extracted data in such a way that can enable any person to make instant decision. In examination with different OS, android application designers are expanding often to make of different open source applications for which their clients are making request. For building up any android application it needs some advancement condition, for example, Eclipse IDE, Android Development Tools (ADT) that is ADT Plug-in and Android Software Development Kit (SDK).[1] we investigate strategies for inspiring a behavorial portrayal from an Android cell phone application in a controlled way. Our objective is a mechanized framework that air conditioner cepts an arrangement of Android application inputs registered disconnected, and creates a nitty gritty portrayal of the conduct
showed when an obscure application is subjected to those sources of info. The conduct depictions we inspire are valuable for performing consequent investigation, for example, show checking for instance to confirm the application fulfills an arrangement of alluring security properties and in this manner figuring out whether the application constitutes malware. [2]

Encryption is another security strategy presented in Android. There is no gadget encryption on Android rendition < 3.0. To begin with encryption strategy for Android working framework is gadget encryption API which was discharged in "Frozen yogurt Sandwich 4.0". Encryption depends on dm-encode (circle encryption) for Android working framework. You should have encryption stick or secret word to peruse the scrambled record in Android. [4]

Quickly developing prominence of Android gadgets by building up an Android application that would recover and show condensed corporate information on Android gadgets, along these lines empowering clients to get up and coming data anyplace they are once they have the application introduced on their Android gadget and additionally a dynamic web association. The extent of this venture is to demonstrate the potential utilization of Android applications inside corporate associations in the basic leadership process.[3]

Android operating system architecture having some main component as follows-

Libraries:

Android is with substantial arrangement of libraries which permit designer to make any sort of android application. This layer incorporates center library, media library, web unit, SQLite Library and other asset bundles with its library records and so on.

Android runtime:

In android each procedure is having singular memory to execute; with the goal that android gives a particular runtime to every single action by utilizing Dalvik Virtual Machine (DVM).

Linux piece: Linux is known for its security and movement administration framework. Linux likewise gives better memory administration; prepare administration and many components in android application. Part is layer of any working framework which helps for communication between the product and the equipment gadget.

Android SDK:

Android studio for creating java based application and android is a java based dialect however it likewise requires some other valuable instruments for growing such applications. Accordingly this Software Development Kit (SDK) and Programmer additionally require different apparatuses to control the created code in the android gadget. For that reason this Android Development Tools (ADT) Plug-in will be utilized so software engineer can upgrade the system and its assets the review of the execution control are follow in the figure 3.1

We separate pre-handling into three noteworthy stages:

Retargeting: Extract all application records from the application's .apk bundle document and change over them from Android arrangements to configurations that are better upheld by existing apparatuses. Byte code Instrumentation: Instrument the application's byte-code with the goal that it discharges an execution follow when run. Repackaging: Convert the changed application documents again into Android arrangements and package them alongside the test tackle in another .apk record.

III. PROPOSED SYSTEM

Web application: This would be made utilizing PHP. it would be an interface through which representative would enter data caught at the nearby workplaces. The data caught would be put away on a focal database. Database server: This part would have the database which would store data that would be caught at the neighbourhood workplaces. The information would be facilitated in Microsoft SQL database and got to by the android application.

Web administrations: This administration empowers data to be traded between the database and the android application. Since the android application can't discussed specifically with the database

Android application: This would be an application that would get to the database over the web, recovers and show an outlined variant of the information caught in the database

![Figure 1. Overview of app execution control and behaviour monitoring system](http://ijesc.org/)

![Figure 2. System of architecture](http://ijesc.org/)
We are developing the web application using the CodeIgniter concept. This concept contains the following aspect while developing the web application: CodeIgniter is an application advancement structure, which can be utilized to create sites, utilizing PHP. It is an Open Source structure. It has an exceptionally rich arrangement of usefulness, which will expand the speed of site improvement work. On the off chance that you know PHP well, then CodeIgniter will make your assignment less demanding. It has an extremely rich arrangement of libraries and assistants. By utilizing CodeIgniter, you will spare a considerable measure of time, in the event that you are building up a site starting with no outside help. Not just that, a site worked in CodeIgniter is secure that occur through sites.

**CodeIgniter Features includes:** A portion of the vital components of CodeIgniter are recorded underneath, Display View - Controller Based System, To a great degree Light Weight , Full Featured database classes with support for a few stages, Inquiry Builder Database Support , Frame and Data Validation , Security and XSS Filtering , Frame and Data Validation , Email Sending Class, Underpins Attachments, HTML/Text email, different conventions (send mail, SMTP, and Mail) and that's just the beginning, Picture Manipulation Library (editing, resizing, pivoting, and so forth.). Bolsters GD, Image Magick, and NetPBM, Record, Uploading Class, Pagination, Information Encryption , Full Page Caching, Trackback Class , XML-RPC Library etc.

**Figure 3. CodeIgniter application architecture.**

As appeared in the figure, at whatever point a demand comes to CodeIgniter, it will first go to index.php page. In the second step, Routing will choose whether to pass this demand to step-3 for reserving or to pass this demand to step-4 for security check. In the event that the asked for page is as of now in Caching, then Routing will pass the demand to step-3 and the reaction will backpedal to the client. On the off chance that the asked for page does not exist in Caching, then Routing will pass the asked for page to step-4 for Security checks. Before passing the demand to Application Controller, the Security of the submitted information is checked. After the Security check, the Application Controller loads vital Models, Libraries, Helpers, Plugins and Scripts and pass it on to View. The View will render the page with accessible information and pass it on for Caching. As the asked for page was not stored before so this time it will be reserved in Caching, to process this page rapidly for future solicitations.

**IV. PROPOSED SYSTEM FLOW**

The propose of the framework which recovers compressed information from a focal database then procedures and presentations that data on an android gadget so this guide to administrators in their basic leadership process. The reason for this venture is to separate vital information from focal database and show them on the online application and android application. There is diverse information mining calculations utilized as a part of the venture to concentrate information from the focal database. The next imperative part in the venture is showing the extricated information in a manner that can empower any individual to settle on immediate arrangement. It is an android based application give the elements like as Analytical Estimating, Detailed Estimates, Accuracy and Error Correction, Trending visibility, Constant information flow, Customizable to various administration levels.

**Figure 4. Login page**

Login Form: According to the part of the client, he/she needs to give the username and secret word and tap on the submit catch. In the event that the client does not have username then he/she can't login into the framework.

**Different fields accessible on the screen will be:**

- **Name:** Alphabets of length up to 30 characters.
- **Secret key:** Alphanumeric of length up to 6 characters.

**Figure 5. Front page menu**
V. CONCLUSION

In our application the distinctive employees, CEO, manager are the included. By utilizing this application the point is info the information from the diverse representative and the put away the information into the database. Different worker and the supervisor are the enter the information of that specific venture frame the distinctive cities. that diverse information are the stored into the focal database to play out the information mining strategy this information are the compacted and summarized by utilizing the distinctive procedures credulous bayes, decision tree etc. and by utilizing this application the summarized report are the created by utilizing the graphical technique, for example, the pie chart, bar diagram etc. in this application contain the inbuilt email office for the email administrations. The venture are infer that are venture gives the investigative evaluating ,natty gritty assessments .exactness and blunder correction, trending, consistent information flow, customizable to various administration levels, ability to penetrate into subtle elements.

VI. REFERENCE


[4]. Mohd Shahdi Ahmad, Nur Emyra Musa, Rathidevi Nadarajah, Rosilah Hassan and Nor Effendy Othman “Comparison Between Android and iOS Operating System in terms of Security” 2013 8th International Conference on Information Technology in Asia (CITA).

